

55

85 -

70

FLUORESCENCE CHANGE (%FMAX)

25

10-

-25

-35 |



A) 300mM KCI B,C,D) 50mM NaCI E) NMDG+ Hanks F) 50mM NaCI

AMILORIDE 10 µM

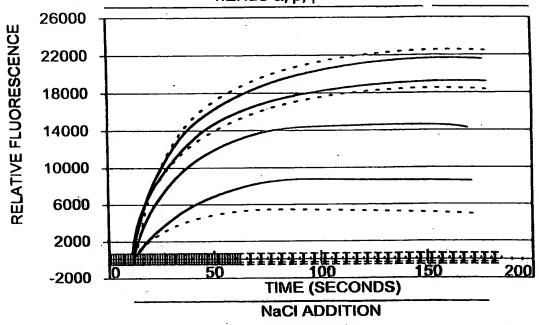
TIME (MINUTES)

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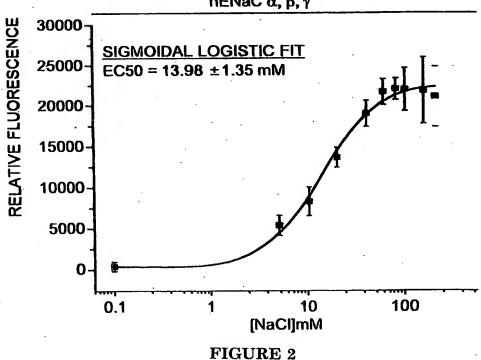
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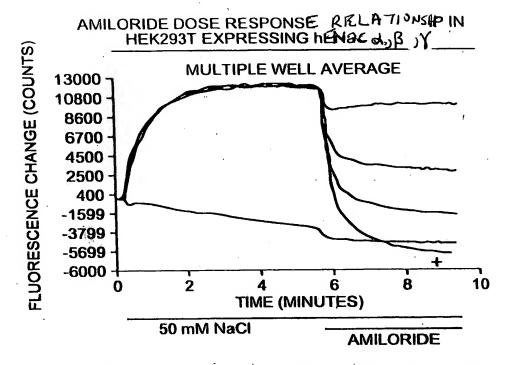
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NaCI DOSE RESPONSE RELATIONSHIP IN HIE K2937 EXPRESSING hENaC α, β, γ



NaCI DOSE RESPONSE RELATIONSHIP IN HEK293T EXPRESSING hENaC α , β , γ





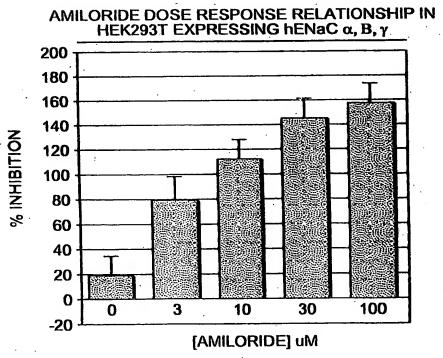
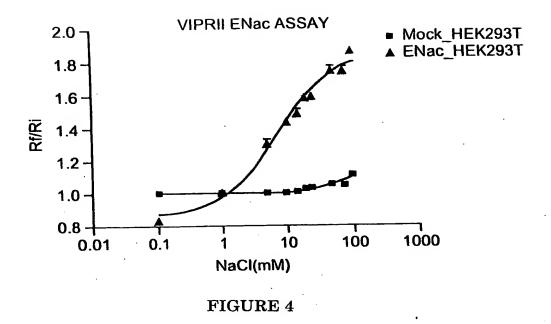


FIGURE 3



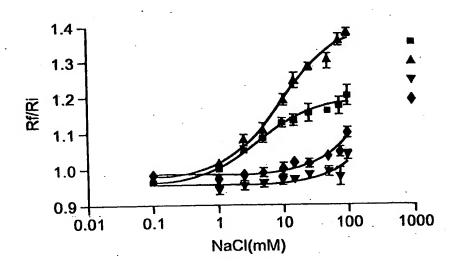


FIGURE 5

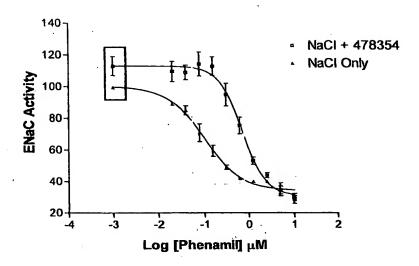
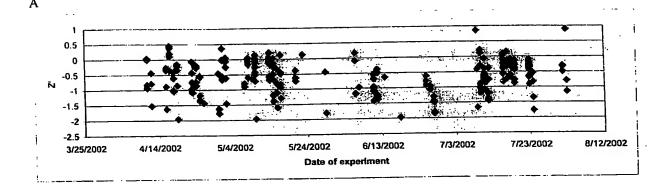
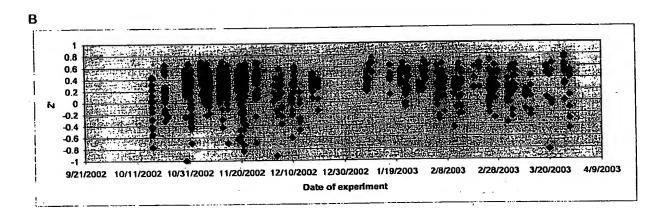


Figure 6: Effect of increasing concentrations of phenamil on ENaC activity. Blue trace: inhibition of ENaC activity by phenamil. Red trace: inhibition of ENaC activity by phenamil in the presence of 100 μ M 478354, an ENaC enhancer. Black box contains data showing 478354 effect in the absence of phenamil. Yellow box contains data showing enhanced 478354 effects by the presence of increasing concentration of phenamil.

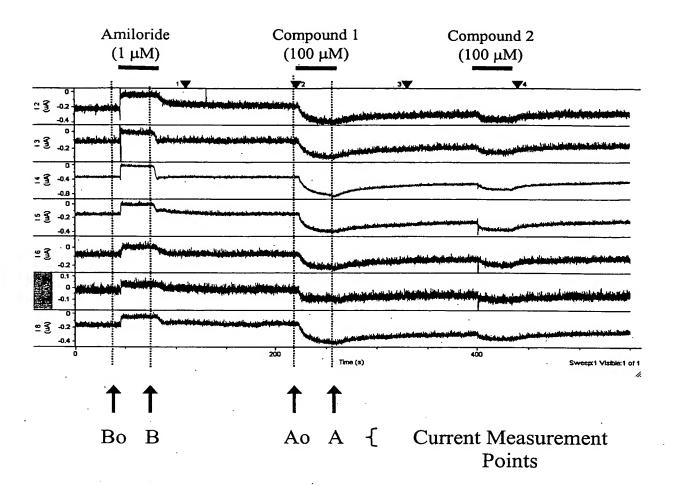


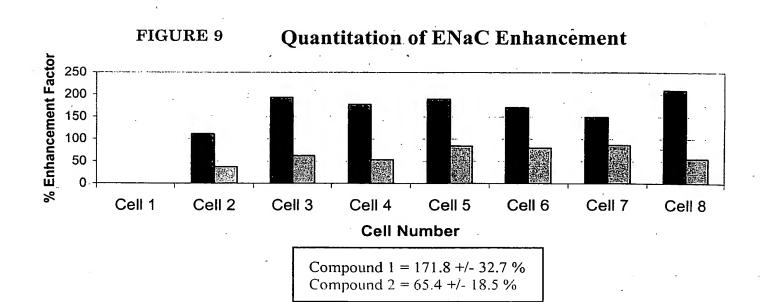


| Z' (range) | # of experiments |
|------------|------------------|
| >0.5 | 153 |
| 0.2 to 0.5 | 417 |
| 0 to 0.2 | 149 |
| <0 | 116 |

Figure 7: A. Distribution of Z'in the absence of phenamil. Z' is define as: 1-((3 X standard deviation of ENaC response + 3 X standard deviation of ENaC response in the presence of 478354)/(mean ENaC activity in the presence of 478354 - mean ENaC activity)). Most Z' values are less than 0 indicating that, when used as the high control, 478354 cannot provide a meanful assay window. B. Distribution of Z'in the presence of 0.5 μ M phenamil. Z' is define as: 1-((3 X standard deviation of ENaC response + 3 X standard deviation of ENaC response in the presence of 478354)/(mean ENaC activity in the presence of 478354 - mean ENaC activity)). Most Z' values are > 0 and \leq 1 indicating that, when used as the high control, 478354 can provides a meaningful assay window in the presence of phenamil.

FIGURE 7





Example Uninjected Oocytes

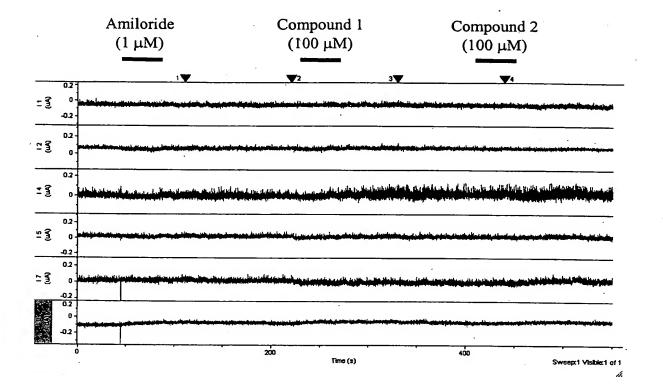
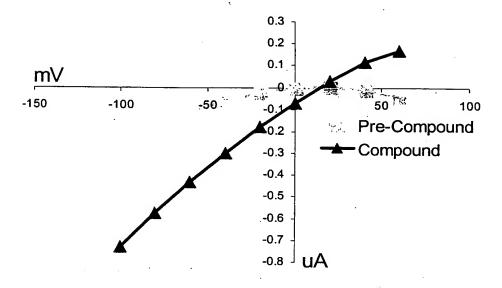


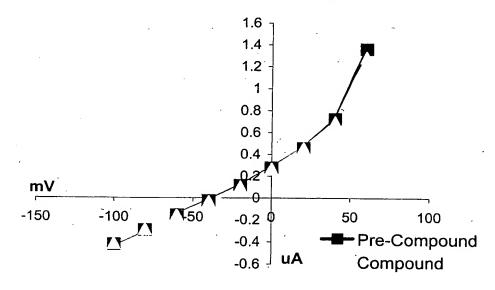
FIGURE 11

Example I/V Curves

A) Injected eggs



B) Uninjected eggs



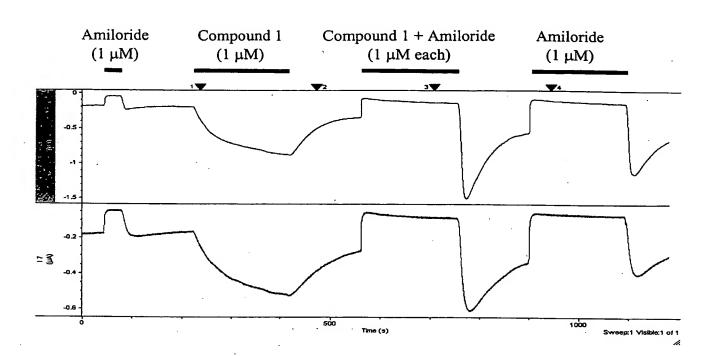


FIGURE 13 Example Dose Response Curves

